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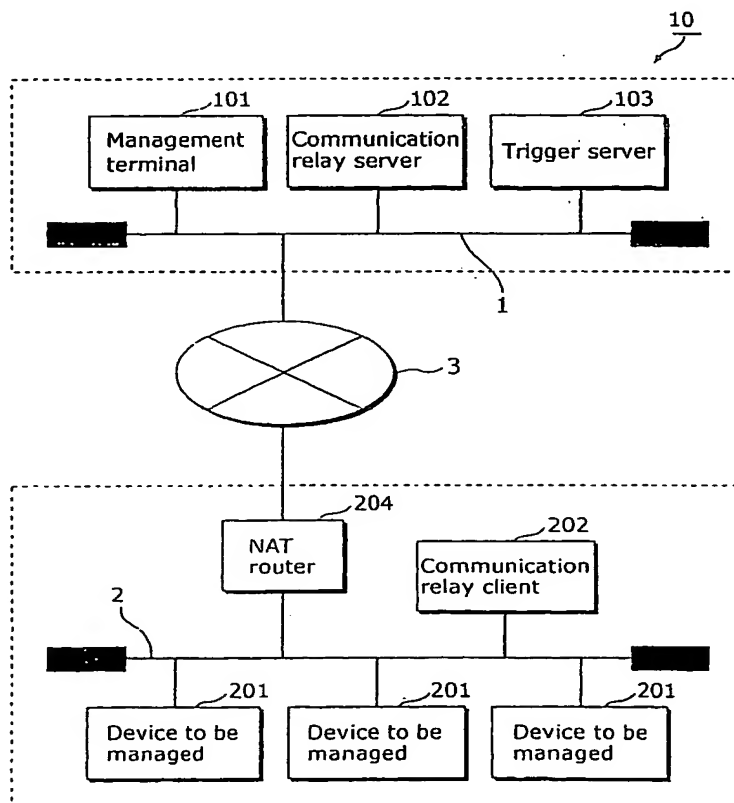
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[Continued on next page]

(54) Title: COMMUNICATION NETWORK SYSTEM AND COMMUNICATION APPARATUS



(57) Abstract: The present invention provides a communication network system in which communication can be securely performed via a global network from an existing terminal apparatus to an existing device connected to a local network without needing a special gateway function in a router and without performing a special setting in the router. In the communication network system (10), a communication relay client (202) performs polling on a management center network (1) via a NAT router (204); a communication relay server (102) converts a packet transmitted from a management terminal (101); and the communication relay client (202) receives the converted packet as a response to the polling via the NAT router (204) from the side of the management center network (1). The communication relay client (202) converts the converted packet to the original packet, and transmits the original packet to a device to be managed (201).

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## PCT REQUEST

Original (for SUBMISSION )

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY model] Version 3.50 (Build 0002.169)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Japan Patent Office (RO/JP)
0-7	Applicant's or agent's file reference	P37758-P0
I	Title of Invention	COMMUNICATION NETWORK SYSTEM AND COMMUNICATION APPARATUS
II	Applicant	
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III-2	Applicant and/or inventor	
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IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
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IV-1-5	e-mail	nii@niipat.com
IV-1-6	Agent's registration No.	100109210
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	20 April 2004 (20.04.2004)
VI-1-2	Number	2004-123930
VI-1-3	Country	JP

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VI-2	Priority claim of earlier national application		
VI-2-1	Filing date	01 November 2004 (01.11.2004)	
VI-2-2	Number	2004-318569	
VI-2-3	Country	JP	
VI-3	Priority document request The receiving Office is requested to prepare and transmit to the International Bureau a certified copy of the earlier application(s) identified above as item(s):	VI-1, VI-2	
VII-1	International Searching Authority Chosen	European Patent Office (EPO) (ISA/EP)	
VIII	Declarations	Number of declarations	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
IX	Check list	number of sheets	electronic file(s) attached
IX-1	Request (including declaration sheets)	4	✓
IX-2	Description	60	-
IX-3	Claims	13	-
IX-4	Abstract	1	✓
IX-5	Drawings	26	-
IX-7	TOTAL	104	
	Accompanying Items	paper document(s) attached	electronic file(s) attached
IX-8	Fee calculation sheet	✓	-
IX-11	Copy of general power of attorney	✓	-
IX-17	PCT-SAFE physical media	-	✓
IX-18	other	Revenue stamps of transmittal fee for receiving office	
IX-19	Figure of the drawings which should accompany the abstract	2	
IX-20	Language of filing of the international application	English	

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X-1	Signature of applicant, agent or common representative	<i>Hiromori Nii</i>
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X-1-2	Name of signatory	
X-1-3	Capacity	

## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/EP
10-6	Transmittal of search copy delayed until search fee is paid	

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11-1	Date of receipt of the record copy by the International Bureau	
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